

Search for

Sim

Click here to view these alignments graphically with the LALNVIEW program (mime-type *chemical/x-aln2*).

Click here to download LALNVIEW (Unix, Mac and PC versions available).

You can also have a look at a sample screen of LALNVIEW and access its documentation.

Results of SIM with:

Sequence 1: UserSeq1, (211 residues)

Sequence 2: RNH2_ARCFU (205 residues)

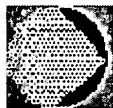
using the parameters:

Comparison matrix: BLOSUM62

Number of alignments computed: 20

Gap open penalty: 12

Gap extension penalty: 4



Evaluate the significance of this protein sequence similarity score using PRSS at EMBnet-CH.

53.8% identity in 208 residues overlap; Score: 538.0; Gap frequency: 1.4%

UserSeq1,	1	MIAGIDEAGKGPVIGPLVICGVLCEETVEYLKSVGKDSKKLDRRKREELYNIIKSLCK
RNH2_ARCFU	1	MKAGIDEAGKGCVIGPLVVAGVACSDE--DRLRKLGVKDSKKLSQGRREELAEIIRKICR
		* *

UserSeq1,	61	VKVLKISVEDLNRLMEYMSINEILKRAYVEIIRSLMPKVYIDCPDINVERFKHEIEERT
RNH2_ARCFU	59	TEVLKVSPENLDERMAAKTINEILKECYAEIILRLKPEIAYVDSPDVIPERLSRELEEIT
		* *

UserSeq1,	121	GVEVFASHKADEIYPIVSIASIVAKVERDFEIDKLKKIYGDFGSGYPSDLRTIEFLRSYL
RNH2_ARCFU	119	GLRVVAEHKADEKYPLVAAASIIAKVEREREIERLKEKFGDFGSGYASDPRTREVLKEWI
		* *

UserSeq1,	181	REHKSFPPIVRKRWTKLRLTTHTLSDF
RNH2_ARCFU	179	ASGR-IPSCVRMRWKTVSNLRQKTLDDF
		* * * * * * * * * * * * * * * *

25.0% identity in 24 residues overlap; Score: 27.0; Gap frequency: 0.0%

7-160

229961

7/15/07 PRINT
CRFE

STIC-Biotech/ChemLib

From: Ramirez, Delia
Sent: 78701 Tuesday, July 03, 2007 3:00 PM
To: STIC-Biotech/ChemLib
Subject: 10/526073

Hi,

I would like to request the following search: SEQ ID NO:1 in the protein databases (commercial & interference).

Please provide a printout of the results.

Thank you very much,

Delia M. Ramirez, Ph.D.
Patent Examiner
Recombinant Enzymes-Art Unit 1652
USPTO
400 Dulany Street, Remsen Bldg., 2D61, Mail room 2C70
Alexandria, VA 22314
(571) 272-0938
delia.ramirez@uspto.gov

1-21/ah

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

WEST Search History

Hide Items

Restore

Clear

Cancel

DATE: Tuesday, August 28, 2007

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L10	L1 same archaeoglob\$4	22
<input type="checkbox"/>	L9	L7 and (Hokazono or uemori or tanaka or kato).in.	14
<input type="checkbox"/>	L8	L7 and takara.asn.	8
<input type="checkbox"/>	L7	L1 and archaeoglob\$4	192
<input type="checkbox"/>	L6	L2 and takara.asn.	11
<input type="checkbox"/>	L5	l2 and (Hokazono or uemori or tanaka or kato).in.	18
<input type="checkbox"/>	L4	L3 and archaeoglob\$4	19
<input type="checkbox"/>	L3	L2 same (isolat\$4 or clon\$4 or purif\$4 or characteri\$4 or express\$4 or recombina\$4 or purif\$4)	409
<input type="checkbox"/>	L2	L1 same (thermostab\$4 or thermotoleran\$4 or stable\$4)	957
<input type="checkbox"/>	L1	(mas\$2 same h) or (ribonucleas\$3 same h)	16345

END OF SEARCH HISTORY

=> d his full

(FILE 'HOME' ENTERED AT 16:52:08 ON 28 AUG 2007)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 16:54:50 ON 28 AUG 2007
SEA (RNAS?(2W)H##) OR (RIBONUCLEAS?(2W)H##)

2 FILE ADISCTI
8 FILE ADISINSIGHT
236 FILE AGRICOLA
22 FILE ANABSTR
2 FILE ANTE
1 FILE AQUALINE
47 FILE AQUASCI
287 FILE BIOENG
3609 FILE BIOSIS
407 FILE BIOTECHABS
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5207 FILE CAPLUS
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2 FILE DRUGB
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3214 FILE SCISEARCH
1245 FILE TOXCENTER
969 FILE USGENE
10171 FILE USPATFULL
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2 FILE VETU
3 FILE WATER
616 FILE WPIDS
2 FILE WPIFV
616 FILE WPINDEX
9 FILE IPA
11 FILE NAPRALERT

180 FILE NLDB
L1 QUE (RNAS?(2W) H##) OR (RIBONUCLEAS?(2W) H##)

D RANK

FILE 'GENBANK, USPATFULL, CAPLUS, MEDLINE, BIOSIS, SCISEARCH, EMBASE,
LIFESCI, BIOTECHNO, ESBIODBASE, TOXCENTER, USPAT2' ENTERED AT 17:05:51 ON
28 AUG 2007

L2 193707 SEA (RNAS?(2W) H##) OR (RIBONUCLEAS?(2W) H##)
L3 1967 SEA L2(S)(THERMOSTABL? OR THERMOTOLERAN? OR STABL?)
L4 730 SEA L3(S)(ISOLAT? OR CLON? OR PURIF? OR CHARACTER? OR EXPRESS?
OR RECOMBINA?)
L5 36 SEA L4 AND ARCHAEOGLOB?
L6 32 DUP REM L5 (4 DUPLICATES REMOVED)
D TI L5 1-32
L7 253 SEA L2 AND ARCHAEOGLOB?
L8 81 SEA L2 (S) ARCHAEOGLOB?
L9 58 DUP REM L8 (23 DUPLICATES REMOVED)
D TI L9 1-59
D IBIB ABS 19 26 29
D IBIB ABS 24

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal652dmr

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAY 01	New CAS web site launched
NEWS	3	MAY 08	CA/CAPLUS Indian patent publication number format defined
NEWS	4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	7	MAY 21	CA/CAPLUS enhanced with additional kind codes for German patents
NEWS	8	MAY 22	CA/CAPLUS enhanced with IPC reclassification in Japanese patents
NEWS	9	JUN 27	CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers
NEWS	10	JUN 29	STN Viewer now available
NEWS	11	JUN 29	STN Express, Version 8.2, now available
NEWS	12	JUL 02	LEMBASE coverage updated
NEWS	13	JUL 02	LMEDLINE coverage updated
NEWS	14	JUL 02	SCISEARCH enhanced with complete author names
NEWS	15	JUL 02	CHEMCATS accession numbers revised
NEWS	16	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	17	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	18	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS	19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	20	JUL 30	USGENE now available on STN
NEWS	21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	22	AUG 06	BEILSTEIN updated with new compounds
NEWS	23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	24	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	25	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS	26	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	27	AUG 27	USPATOLD now available on STN
NEWS	28	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:52:08 ON 28 AUG 2007

=> s (rnas?(2w)h##) or (ribonucleas?(2w)h##)

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
1.05	1.05

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 16:54:50 ON 28 AUG 2007

72 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s (rnas?(2w)h##) or (ribonucleas?(2w)h##)

2	FILE ADISCTI
8	FILE ADISINSIGHT
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22	FILE ANABSTR
2	FILE ANTE
1	FILE AQUALINE
7	FILES SEARCHED...
47	FILE AQUASCI
287	FILE BIOENG
3609	FILE BIOSIS
10	FILES SEARCHED...
407	FILE BIOTECHABS
11	FILES SEARCHED...
407	FILE BIOTECHDS
1995	FILE BIOTECHNO
13	FILES SEARCHED...
402	FILE CABA
5207	FILE CAPLUS
37	FILE CEABA-VTB
37	FILE CIN
17	FILES SEARCHED...
54	FILE CONFSCI
3	FILE CROPU
2	FILE DDFB
174	FILE DDFU
3869	FILE DGENE
23	FILES SEARCHED...
372	FILE DISSABS
2	FILE DRUGB
287	FILE DRUGU
30	FILE EMBAL
3019	FILE EMBASE
29	FILES SEARCHED...
1646	FILE ESBIODASE

30 FILES SEARCHED...

- 4 FILE FROSTI
- 14 FILE FSTA
- 156669 FILE GENBANK

35 FILES SEARCHED...

- 1 FILE HEALSAFE
- 703 FILE IFIPAT
- 6 FILE IMSDRUGNEWS
- 13 FILE IMSRESEARCH
- 2090 FILE LIFESCI
- 3697 FILE MEDLINE

43 FILES SEARCHED...

- 20 FILE NTIS
- 6 FILE OCEAN
- 827 FILE PASCAL

47 FILES SEARCHED...

- 16 FILE PHAR
- 4 FILE PHARMAML
- 19 FILE PHIN
- 148 FILE PROMT

53 FILES SEARCHED...

- 28 FILE PROUSDDR
- 1 FILE RDISCLOSURE
- 3214 FILE SCISEARCH
- 1245 FILE TOXCENTER

59 FILES SEARCHED...

- 969 FILE USGENE
- 10171 FILE USPATFULL
- 2 FILE USPATOLD
- 1145 FILE USPAT2
- 2 FILE VETU
- 3 FILE WATER

66 FILES SEARCHED...

- 616 FILE WPIDS
- 2 FILE WPIFV
- 616 FILE WPINDEX
- 9 FILE IPA
- 11 FILE NAPRALERT

71 FILES SEARCHED...

- 180 FILE NLDB

59 FILES HAVE ONE OR MORE ANSWERS, 72 FILES SEARCHED IN STNINDEX

L1 QUE (RNAS?(2W) H##) OR (RIBONUCLEAS?(2W) H##)

=> d rank

F1	156669	GENBANK
F2	10171	USPATFULL
F3	5207	CAPLUS
F4	3869	DGENE
F5	3697	MEDLINE
F6	3609	BIOSIS
F7	3214	SCISEARCH
F8	3019	EMBASE
F9	2090	LIFESCI
F10	1995	BIOTECHNO
F11	1646	ESBIOBASE
F12	1245	TOXCENTER
F13	1145	USPAT2
F14	969	USGENE
F15	827	PASCAL
F16	703	IFIPAT
F17	616	WPIDS
F18	616	WPINDEX
F19	407	BIOTECHABS

F20	407	BIOTECHDS
F21	402	CABA
F22	372	DISSABS
F23	287	BIOENG
F24	287	DRUGU
F25	236	AGRICOLA
F26	180	NLDB
F27	174	DDFU
F28	148	PROMT
F29	54	CONFSCI
F30	47	AQUASCI
F31	37	CEABA-VTB
F32	37	CIN
F33	30	EMBAL
F34	28	PROUSDDR
F35	22	ANABSTR
F36	20	NTIS
F37	19	PHIN
F38	16	PHAR
F39	14	FSTA
F40	13	IMSRESEARCH
F41	11	NAPRALERT
F42	9	IPA
F43	8	ADISINSIGHT
F44	6	IMSDRUGNEWS
F45	6	OCEAN
F46	4	FROSTI
F47	4	PHARMAML
F48	3	CROPU
F49	3	WATER
F50	2	ADISCTI
F51	2	ANTE
F52	2	DDFB
F53	2	DRUGB
F54	2	USPATOLD
F55	2	VETU
F56	2	WPIFV
F57	1	AQUALINE
F58	1	HEALSAFE
F59	1	RDISCLOSURE

=> file f1-f3, f5-f13

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

11.34

12.39

FILE 'GENBANK' ENTERED AT 17:05:51 ON 28 AUG 2007

FILE 'USPATFULL' ENTERED AT 17:05:51 ON 28 AUG 2007

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=> s (rnas?(2w)h##) or (ribonucleas?(2w)h##)

4 FILES SEARCHED...

6 FILES SEARCHED...

9 FILES SEARCHED...

10 FILES SEARCHED...

L2 193707 (RNAS?(2W) H##) OR (RIBONUCLEAS?(2W) H##)

=> s l2(s) (thermostabl? or thermotoleran? or stabl?)

L3 1967 L2(S) (THERMOSTABL? OR THERMOTOLERAN? OR STABL?)

=> s l3(s) (isolat? or clon? or purif? or character? or express? or recombina?)

3 FILES SEARCHED...

9 FILES SEARCHED...

10 FILES SEARCHED...

L4 730 L3(S) (ISOLAT? OR CLON? OR PURIF? OR CHARACTER? OR EXPRESS? OR RECOMBINA?)

=> s l4 and archaeoglob?

L5 36 L4 AND ARCHAEOGLOB?

=> dup rem l5

DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L5

L6 32 DUP REM L5 (4 DUPLICATES REMOVED)

=> d ti l5 1-32

L5 ANSWER 1 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Identification and characterization of a new
conjugation/ type IVA secretion system (trb/tra) of L.
pneumophila Corby localized on a mobile genomic island
TITLE (TI): Direct Submission

L5 ANSWER 2 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Complete DNA sequence of a serogroup A strain of
Neisseria meningitidis Z2491
TITLE (TI): Direct Submission

L5 ANSWER 3 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Complete genome of the mutualistic, N2-fixing grass
endophyte Azoarcus sp. strain BH72
TITLE (TI): Direct Submission

L5 ANSWER 4 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The genome of *Rhizobium leguminosarum* has recognizable core and accessory components

TITLE (TI): Direct Submission

L5 ANSWER 5 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The genome of *Rhizobium leguminosarum* has recognizable core and accessory components

TITLE (TI): Direct Submission

L5 ANSWER 6 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The complete genome sequence of the European *Francisella tularensis* subspecies *tularensis* isolate FSC 198 suggests that it is derived from the archetypal laboratory strain Schu S4, originally isolated in North America

TITLE (TI): Direct Submission

L5 ANSWER 7 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The Genome of *Sulfolobus acidocaldarius*, a Model Organism of the Crenarchaeota

TITLE (TI): Direct Submission

L5 ANSWER 8 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The complete genome sequence of *Francisella tularensis*, the causative agent of tularemia

TITLE (TI): Direct Submission

L5 ANSWER 9 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Thermoadaptation trait revealed by the genome sequence of thermophilic *Geobacillus kaustophilus*

TITLE (TI): Direct Submission

L5 ANSWER 10 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Genome sequence of *Streptococcus mutans* UA159, a cariogenic dental pathogen

TITLE (TI): Direct Submission

L5 ANSWER 11 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Genome Sequence of *Yersinia pestis* KIM

TITLE (TI): Direct Submission

L5 ANSWER 12 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Genome sequence of *Yersinia pestis*, the causative agent of plague

TITLE (TI): Annotation and evolutionary relationships of a small regulatory RNA gene *micF* and its target *ompF* in *Yersinia* species

TITLE (TI): Direct Submission

L5 ANSWER 13 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The genome sequence of the food-borne pathogen *Campylobacter jejuni* reveals hypervariable sequences

TITLE (TI): Re-annotation of *Campylobacter jejuni* NCTC11168

TITLE (TI): Direct Submission
TITLE (TI): Direct Submission

L5 ANSWER 14 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The genome sequence of the enterobacterial
phytopathogen *Erwinia carotovora* subsp. *atroseptica*
SCRI1043 and functional genomic identification of novel
virulence factors

TITLE (TI): Direct Submission

L5 ANSWER 15 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Complete genome sequence of the model actinomycete
Streptomyces coelicolor A3(2)

TITLE (TI): Direct Submission

L5 ANSWER 16 OF 36 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Complete genome sequence of an M1 strain of
Streptococcus pyogenes

TITLE (TI): Direct Submission

L5 ANSWER 17 OF 36 USPATFULL on STN

TI Primers for synthesizing full-length cDNA and their use

L5 ANSWER 18 OF 36 USPATFULL on STN

TI Thermostable ribonuclease h

L5 ANSWER 19 OF 36 USPATFULL on STN

TI Method for amplifying nucleic acid sequence

L5 ANSWER 20 OF 36 USPATFULL on STN

TI Method for amplifying nucleic acid sequence

L5 ANSWER 21 OF 36 USPATFULL on STN

TI Nucleic acid amplification methods

L5 ANSWER 22 OF 36 USPATFULL on STN

TI Method of detecting pathogenic microorganism

L5 ANSWER 23 OF 36 USPATFULL on STN

TI Thermotolerant ribonuclease h

L5 ANSWER 24 OF 36 USPATFULL on STN

TI Nucleic acid encoding 5'-3' exonuclease of bacteriophage RM 378

L5 ANSWER 25 OF 36 USPATFULL on STN

TI Nucleic acid encoding 3'-5' exonuclease of bacteriophage RM 378

L5 ANSWER 26 OF 36 USPATFULL on STN

TI Nucleic acid encoding RNA ligase of bacteriophage RM 378

L5 ANSWER 27 OF 36 USPATFULL on STN

TI Nucleic acid encoding DNA polymerase of bacteriophage RM 378

L5 ANSWER 28 OF 36 USPATFULL on STN

TI RNA ligase of bacteriophage RM 378

L5 ANSWER 29 OF 36 USPATFULL on STN

TI Nucleic acid encoding DNA helicase of bacteriophage RM 378

L5 ANSWER 30 OF 36 USPATFULL on STN

TI Method for amplifying nucleic acid sequence

L5 ANSWER 31 OF 36 USPATFULL on STN
TI Bacteriophage RM 378 of a thermophilic host organism

L5 ANSWER 32 OF 36 CAPLUS COPYRIGHT 2007 ACS on STN
TI Cloning of thermostable ribonuclease
H gene from Archaeoglobus profundus

=> s 12 and archaeoglob?

L7 253 L2 AND ARCHAEOGLOB?

=> s 12 (s) archaeoglob?

L8 81 L2 (S) ARCHAEOGLOB?

=> dup rem 18

DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L8

L9 58 DUP REM L8 (23 DUPLICATES REMOVED)

=> d ti 19 1-59

L9 ANSWER 1 OF 58 USPATFULL on STN
TI Primers for synthesizing full-length cDNA and their use

L9 ANSWER 2 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 3 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 4 OF 58 USPATFULL on STN
TI Thermostable ribonuclease h

L9 ANSWER 5 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 6 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 7 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 8 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 9 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 10 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 11 OF 58 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics

L9 ANSWER 12 OF 58 USPATFULL on STN

TI Method of typing gene polymorphisms
 L9 ANSWER 13 OF 58 USPATFULL on STN
 TI Methods and compositions related to argonaute proteins
 L9 ANSWER 14 OF 58 USPATFULL on STN DUPLICATE 1
 TI Nucleic acid and amplification methods
 L9 ANSWER 15 OF 58 USPATFULL on STN
 TI Method for amplifying nucleic acid sequence
 L9 ANSWER 16 OF 58 USPATFULL on STN
 TI Nucleic acid and amino acid sequences relating to streptococcus pneumoniae for diagnostics and therapeutics
 L9 ANSWER 17 OF 58 USPATFULL on STN
 TI Method for amplifying nucleic acid sequence
 L9 ANSWER 18 OF 58 USPATFULL on STN
 TI Method of stabilizing reagent for amplifying or detecting nucleic acid and storage method
 L9 ANSWER 19 OF 58 LIFESCI COPYRIGHT 2007 CSA on STN DUPLICATE 2
 TI Structural basis for 5'-end-specific recognition of guide RNA by the A. fulgidus Piwi protein
 L9 ANSWER 20 OF 58 USPATFULL on STN DUPLICATE 3
 TI Method of detecting nucleotide polymorphism
 L9 ANSWER 21 OF 58 USPATFULL on STN DUPLICATE 4
 TI Thermotolerant ribonuclease h
 L9 ANSWER 22 OF 58 USPATFULL on STN
 TI Method of detecting pathogenic microorganism
 L9 ANSWER 23 OF 58 USPATFULL on STN
 TI Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics
 L9 ANSWER 24 OF 58 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Cloning of thermostable ribonuclease H gene from Archaeoglobus profundus
 L9 ANSWER 25 OF 58 LIFESCI COPYRIGHT 2007 CSA on STN DUPLICATE 5
 TI Structural and Thermodynamic Evidence for a Stabilizing Role of Nop5p in S- Adenosyl-L-methionine Binding to Fibrillarin
 L9 ANSWER 26 OF 58 USPATFULL on STN DUPLICATE 6
 TI Method for amplifying nucleic acid sequence
 L9 ANSWER 27 OF 58 USPATFULL on STN
 TI Nucleic acid and amino acid sequences relating to pseudomonas aeruginosa for diagnostics and therapeutics
 L9 ANSWER 28 OF 58 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 7
 TI Chimeric oligonucleotides as primers for isothermal nucleic acid amplification and probes for detection
 L9 ANSWER 29 OF 58 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 8
 TI Archaeoglobus fulgidus RNase HII in DNA Replication: Enzymological Functions and Activity Regulation via Metal Cofactors
 L9 ANSWER 30 OF 58 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 9
 TI Structural Biochemistry of a Type 2 RNase H: RNA Primer Recognition and

Removal During DNA Replication

L9 ANSWER 31 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): Annotation and evolutionary relationships of a small regulatory RNA gene micF and its target ompF in Yersinia species
TITLE (TI): The Complete Genome Sequence and Comparative Genome Analysis of the High Pathogenicity Yersinia enterocolitica Strain 8081
TITLE (TI): Direct Submission

L9 ANSWER 32 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491
TITLE (TI): Direct Submission

L9 ANSWER 33 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): Complete genome of the mutualistic, N2-fixing grass endophyte Azoarcus sp. strain BH72
TITLE (TI): Direct Submission

L9 ANSWER 34 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): The genome of Rhizobium leguminosarum has recognizable core and accessory components
TITLE (TI): Direct Submission

L9 ANSWER 35 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): The genome of Rhizobium leguminosarum has recognizable core and accessory components
TITLE (TI): Direct Submission

L9 ANSWER 36 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): The Genome of Sulfolobus acidocaldarius, a Model Organism of the Crenarchaeota
TITLE (TI): Direct Submission

L9 ANSWER 37 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): The genome of the kinetoplastid parasite, Leishmania major
TITLE (TI): Direct Submission

L9 ANSWER 38 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): Extensive DNA inversions in the B. fragilis genome control variable gene expression
TITLE (TI): Direct Submission

L9 ANSWER 39 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): The complete genome sequence of the carcinogenic bacterium Helicobacter hepaticus
TITLE (TI): Direct Submission

L9 ANSWER 40 OF 58 GENBANK® COPYRIGHT 2007 on STN
TITLE (TI): Genome sequence of Streptococcus mutans UA159, a cariogenic dental pathogen
TITLE (TI): Direct Submission

L9 ANSWER 41 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Genome Sequence of *Yersinia pestis* KIM
TITLE (TI): Direct Submission

L9 ANSWER 42 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Genome sequence of *Yersinia pestis*, the causative agent of plague
TITLE (TI): Annotation and evolutionary relationships of a small regulatory RNA gene *micF* and its target *ompF* in *Yersinia* species
TITLE (TI): Direct Submission

L9 ANSWER 43 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The genome sequence of the food-borne pathogen *Campylobacter jejuni* reveals hypervariable sequences
TITLE (TI): Re-annotation of *Campylobacter jejuni* NCTC11168
TITLE (TI): Direct Submission
TITLE (TI): Direct Submission

L9 ANSWER 44 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Complete genome sequence of *Clostridium perfringens*, an anaerobic flesh-eater
TITLE (TI): Direct Submission

L9 ANSWER 45 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Genomic plasticity of the causative agent of melioidosis, *Burkholderia pseudomallei*
TITLE (TI): Direct Submission

L9 ANSWER 46 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Genomic plasticity of the causative agent of melioidosis, *Burkholderia pseudomallei*
TITLE (TI): Direct Submission

L9 ANSWER 47 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The genome sequence of the enterobacterial phytopathogen *Erwinia carotovora* subsp. *atroseptica* SCRI1043 and functional genomic identification of novel virulence factors
TITLE (TI): Direct Submission

L9 ANSWER 48 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Deciphering the biology of *Mycobacterium tuberculosis* from the complete genome sequence
TITLE (TI): Re-annotation of the genome sequence of *Mycobacterium tuberculosis* H37Rv
TITLE (TI): Direct Submission

L9 ANSWER 49 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The genome of *Nanoarchaeum equitans*: insights into early archaeal evolution and derived parasitism
TITLE (TI): Direct Submission

L9 ANSWER 50 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Deciphering the biology of Mycobacterium tuberculosis
from the complete genome sequence
TITLE (TI): Re-annotation of the genome sequence of Mycobacterium
tuberculosis H37Rv
TITLE (TI): Direct Submission

L9 ANSWER 51 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Comparative analysis of the genome sequences of
Bordetella pertussis, Bordetella parapertussis and
Bordetella bronchiseptica
TITLE (TI): Direct Submission

L9 ANSWER 52 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Genome Sequence and Comparative Analysis of the
Solvent-Producing Bacterium Clostridium acetobutylicum
TITLE (TI): Direct Submission

L9 ANSWER 53 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Complete genome sequence of the model actinomycete
Streptomyces coelicolor A3(2)
TITLE (TI): Direct Submission

L9 ANSWER 54 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Complete genome sequence of the model actinomycete
Streptomyces coelicolor A3(2)
TITLE (TI): Direct Submission

L9 ANSWER 55 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Thermostable ribonuclease H

L9 ANSWER 56 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Thermostable ribonuclease H

L9 ANSWER 57 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): Complete genome sequence of an M1 strain of
Streptococcus pyogenes
TITLE (TI): Direct Submission

L9 ANSWER 58 OF 58 GENBANK® COPYRIGHT 2007 on STN

TITLE (TI): The genome sequence of the thermoacidophilic scavenger
Thermoplasma acidophilum
TITLE (TI): Direct Submission

=> d ibib abs 19 26 29 55 56

NO VALID FORMATS ENTERED FOR FILE 'GENBANK'

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format requested. Refer to file specific help messages or the
STNGUIDE file for information on formats available in individual
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REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):end

=> d ibib abs 19 26 29

L9 ANSWER 19 OF 58 LIFESCI COPYRIGHT 2007 CSA on STN DUPLICATE 2

ACCESSION NUMBER: 2005:39690 LIFESCI

TITLE: Structural basis for 5'-end-specific recognition of guide

AUTHOR: RNA by the *A. fulgidus* Piwi protein
 Ma, Jin-Biao; Yuan, Yu-Ren; Meister, Gunter; Pei, Yi;
 Tuschl, Thomas; Patel, Dinshaw J.
 CORPORATE SOURCE: Structural Biology Program, Memorial Sloan-Kettering Cancer
 Center, New York, New York 10021, USA; E-mail:
 pateld@mskcc.org
 SOURCE: Nature, (20050331) vol. 434, no. 7033, pp. 666-670.
 ISSN: 0028-0836.
 DOCUMENT TYPE: Journal
 FILE SEGMENT: N; J
 LANGUAGE: English
 SUMMARY LANGUAGE: English

AB RNA interference (RNAi) is a conserved sequence-specific gene regulatory
 mechanism mediated by the RNA-induced silencing complex (RISC), which is
 composed of a single-stranded guide RNA and an Argonaute protein. The PIWI
 domain, a highly conserved motif within Argonaute, has been shown to adopt
 an RNase H fold critical for the endonuclease cleavage
 activity of RISC. Here we report the crystal structure of
Archaeoglobus fulgidus Piwi protein bound to double-stranded RNA,
 thereby identifying the binding pocket for guide-strand 5'- end
 recognition and providing insight into guide-strand-mediated messenger RNA
 target recognition. The phosphorylated 5' end of the guide RNA is anchored
 within a highly conserved basic pocket, supplemented by the
 carboxy-terminal carboxylate and a bound divalent cation. The first
 nucleotide from the 5' end of the guide RNA is unpaired and stacks over a
 conserved tyrosine residue, whereas successive nucleotides form a
 four-base-pair RNA duplex. Mutation of the corresponding amino acids that
 contact the 5' phosphate in human Ago2 resulted in attenuated mRNA
 cleavage activity. Our structure of the Piwi-RNA complex, and that
 determined elsewhere, provide direct support for the 5' region of the
 guide RNA serving as a nucleation site for pairing with target mRNA and
 for a fixed distance separating the RISC-mediated mRNA cleavage site from
 the anchored 5' end of the guide RNA.

L9 ANSWER 26 OF 58 USPATFULL on STN DUPLICATE 6

ACCESSION NUMBER: 2003:106170 USPATFULL
 TITLE: Method for amplifying nucleic acid sequence
 INVENTOR(S): Mukai, Hiroyuki, Shiga, JAPAN

Sagawa, Hiroaki, Shiga, JAPAN
 Uemori, Takashi, Shiga, JAPAN
 Yamamoto, Junko, Shiga, JAPAN
 Tomono, Jun, Shiga, JAPAN
 Kobayashi, Eiji, Shiga, JAPAN
 Enoki, Tatsuji, Shiga, JAPAN
 Takeda, Osamu, Shiga, JAPAN
 Miyake, Kazue, Kyoto, JAPAN
 Sato, Yoshimi, Shiga, JAPAN
 Moriyama, Mariko, Kyoto, JAPAN
 Sawaragi, Haruhisa, Shiga, JAPAN
 Hagiya, Michio, Shiga, JAPAN
 Asada, Kiyozo, Shiga, JAPAN
 Kato, Ikunoshin, Kyoto, JAPAN

PATENT ASSIGNEE(S): Takara Shuzo Co., Ltd, Kyoto-shi, JAPAN (non-U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003073081	A1	20030417
	US 6951722	B2	20051004
APPLICATION INFO.:	US 2001-935338	A1	20010823 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 2000-JP1534, filed on 14 Mar 2000, UNKNOWN		

NUMBER	DATE
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PRIORITY INFORMATION: JP 1999-76966 19990319
JP 1999-370035 19991227
JP 2000-251981 20000823
JP 2000-284419 20000919
JP 2000-288750 20000922
JP 2001-104191 20010403

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BROWDY AND NEIMARK, P.L.L.C., 624 NINTH STREET, NW,
SUITE 300, WASHINGTON, DC, 20001-5303
NUMBER OF CLAIMS: 220
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 31 Drawing Page(s)
LINE COUNT: 11844

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A convenient and effective method for amplifying a nucleic acid sequence characterized by effecting a DNA synthesis reaction in the presence of chimeric oligonucleotide primers; a method for supplying a large amount of DNA amplification fragments; an effective method for amplifying a nucleic acid sequence by combining the above method with another nucleic acid sequence amplification method; a method for detecting a nucleic acid sequence for detecting or quantitating a microorganism such as a virus, a bacterium, a fungus or a yeast; and a method for detecting a DNA amplification fragment obtained by the above method in situ.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 29 OF 58 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 8

ACCESSION NUMBER: 2001:633090 CAPLUS
DOCUMENT NUMBER: 135:354507
TITLE: Archaeoglobus fulgidus RNase
HII in DNA Replication: Enzymological
Functions and Activity Regulation via Metal Cofactors
AUTHOR(S): Chai, Qing; Qiu, Junzhuan; Chapados, Brian R.; Shen,
Binghui
CORPORATE SOURCE: Department of Cell and Tumor Biology, City of Hope
National Medical Center, Duarte, CA, 91010, USA
SOURCE: Biochemical and Biophysical Research Communications
(2001), 286(5), 1073-1081
CODEN: BBRC9; ISSN: 0006-291X
PUBLISHER: Academic Press
DOCUMENT TYPE: Journal
LANGUAGE: English

AB RNA primer removal during DNA replication is dependent on ribonucleotide- and structure-specific RNase H and FEN-1 nuclease activities. A specific RNase H involved in this reaction has long been sought. RNase HII is the only open reading frame in Archaeoglobus fulgidus genome, while multiple RNases H exist in eukaryotic cells. Data presented here show that RNase HII from A. fulgidus (aRNase HII) specifically recognizes RNA-DNA junctions and generates products suited for the FEN-1 nuclease, indicating its role in DNA replication. Biochem. characterization of aRNase HII activity in the presence of various divalent metal ions reveals a broad metal tolerance with a preference for Mg²⁺ and Mn²⁺. Combined mutagenesis, biochem. competitions, and metal-dependent activity assays further clarify the functions of the identified amino acid residues in substrate binding or catalysis, resp. These expts. also reveal that Asp129 form a second-metal binding site, and thus contribute to activity attenuation. (c) 2001 Academic Press.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs 24

L9 ANSWER 24 OF 58 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:203968 CAPLUS
 DOCUMENT NUMBER: 140:249191
 TITLE: Cloning of thermostable ribonuclease
 H gene from Archaeoglobus profundus
 INVENTOR(S): Hokazono, Shigekazu; Uemori, Takashi; Tanaka, Tetsuki;
 Kato, Ikunoshin
 PATENT ASSIGNEE(S): Takara Bio Inc., Japan
 SOURCE: PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004020621	A1	20040311	WO 2003-JP10727	20030826
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003257699	A1	20040319	AU 2003-257699	20030826
EP 1553172	A1	20050713	EP 2003-791275	20030826
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1678736	A	20051005	CN 2003-820544	20030826
US 2007037247	A1	20070215	US 2005-526073	20050228
PRIORITY APPLN. INFO.: JP 2002-254153 A 20020830 WO 2003-JP10727 W 20030826				

AB The present invention provides thermostable RNase H of Archaeoglobus profundus, encoding gene, and methods for production by genetic engineering. An RNase H gene was cloned from Archaeoglobus profundus and expressed in E. coli. Thermostability was studied and its utility in detection of HBV X protein gene via ICAN system was demonstrated.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 16:54:50 ON 28 AUG 2007
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2 FILE ADISCTI
 8 FILE ADISINSIGHT
 236 FILE AGRICOLA
 22 FILE ANABSTR
 2 FILE ANTE
 1 FILE AQUALINE
 47 FILE AQUASCI
 287 FILE BIOENG
 3609 FILE BIOSIS

407 FILE BIOTECHABS
 407 FILE BIOTECHDS
 1995 FILE BIOTECHNO
 402 FILE CABA
 5207 FILE CAPLUS
 37 FILE CEABA-VTB
 37 FILE CIN
 54 FILE CONFSCI
 3 FILE CROPU
 2 FILE DDFB
 174 FILE DDFU
 3869 FILE DGENE
 372 FILE DISSABS
 2 FILE DRUGB
 287 FILE DRUGU
 30 FILE EMBAL
 3019 FILE EMBASE
 1646 FILE ESBIODASE
 4 FILE FROSTI
 14 FILE FSTA
 156669 FILE GENBANK
 1 FILE HEALSAFE
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 6 FILE IMSDRUGNEWS
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 3697 FILE MEDLINE
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 4 FILE PHARMAML
 19 FILE PHIN
 148 FILE PROMT
 28 FILE PROUSDDR
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 3214 FILE SCISEARCH
 1245 FILE TOXCENTER
 969 FILE USGENE
 10171 FILE USPATFULL
 2 FILE USPATOLD
 1145 FILE USPAT2
 2 FILE VETU
 3 FILE WATER
 616 FILE WPIDS
 2 FILE WPIFV
 616 FILE WPINDEX
 9 FILE IPA
 11 FILE NAPRALERT
 180 FILE NLDB

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L2 193707 SEA (RNAS?(2W) H##) OR (RIBONUCLEAS?(2W) H##)
 L3 1967 SEA L2(S) (THERMOSTABL? OR THERMOTOLERAN? OR STABL?)
 L4 730 SEA L3(S) (ISOLAT? OR CLON? OR PURIF? OR CHARACTER? OR EXPRESS?
 OR RECOMBINA?)
 L5 36 SEA L4 AND ARCHAEOGLOB?
 L6 32 DUP REM L5 (4 DUPLICATES REMOVED)
 D TI L5 1-32
 L7 253 SEA L2 AND ARCHAEOGLOB?

L8 81 SEA L2 (S) ARCHAEOGLOB?
L9 58 DUP REM L8 (23 DUPLICATES REMOVED)
D TI L9 1-59
D IBIB ABS 19 26 29
D IBIB ABS 24

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 28 Aug 2007 (20070828/PD)

FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

HIGHEST GRANTED PATENT NUMBER: US7263724

HIGHEST APPLICATION PUBLICATION NUMBER: US2007199122

CA INDEXING IS CURRENT THROUGH 28 Aug 2007 (20070828/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 28 Aug 2007 (20070828/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2007

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2007

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substance identification.

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CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
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through 1968. These records have been re-indexed to match current.